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M/EB 493/64  
21 October 1964  
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MEMORANDUM FOR: Chief, Ballistic Missile and Space Division, OSI

ATTENTION: [REDACTED]

THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

FROM: Chief, CIA/PID (NPIC)

SUBJECT: Photo Analysis of Simferopol FLIM FLAM Tracking Station, USSR

REFERENCES: (a) Requirement C-SI-3-80,659  
(b) CIA/PID Project C 1397-63  
(c) NPIC/R69/64  
(d) NPIC/R293/64

1. This memorandum is in partial response to your requirement dated 4 October 1963 requesting a detailed photo analysis of each FLIM FLAM tracking facility located within the USSR. This memorandum covers only the Simferopol, FLIM FLAM tracking facility.

2. The Simferopol FLIM FLAM tracking facility is located within the west central portion of the Simferopol Earth Satellite Tracking and Communications Center located at 45-03N 33-53E, 11 nautical miles northwest of Simferopol. The coordinates of the FLIM FLAM facility are 45-03-28N 33-53-30E. Mensural data for this report was accomplished by the photo interpreter using scale factors provided by TID/NPIC, with a confidence factor of  $\pm 5$  percent.

3. The FLIM FLAM facility consists of two main 80 by 60 by 25-foot buildings, spaced from center to center, 450 feet apart. A perpendicular to a line passing through the two buildings lies on an azimuth orientation of 0/180 degrees. A small support building is located between the two main buildings. On photography [REDACTED] a 55 to 60-foot diameter environmental shelter is positioned on the roof of the westernmost building (see attached line drawing and photo). A small probable antenna is positioned on the roof of the easternmost building on a low square platform within a circular structure or roof cut. A 55 to 60-foot diameter environmental shelter is lying on the ground adjacent to the building. On March 1964 photography, a small possible mast is seen on both the northeast and southeast corner of the roof.

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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Since this facility is located within the large Simferopol Tracking Center, it is impossible to positively determine what other items may be associated with the FLIM FLAM facility. Several items, however, appear to be possibly associated. One of these is a 175 by 50-foot building located 680 feet east of the center of the main tracking buildings, three small buildings northeast of the main buildings, an unidentified object located west of the westernmost building and connected to it by cable, and an unidentified object located east of the easternmost building and possibly connected to it by cable. These, although not confirmed on aerial photography, may be the stick-mast antennas identified on ground photography reported to be located 1,200 feet west and east of the center of the main buildings (see attached perspective drawing). A 175-foot high calibration tower is located 4,100 feet south of the tracking buildings and is possibly connected by cable with the buildings. An interferometer with base lines of approximately 1,125 feet is in late stages of construction 3,600 feet west of the facility.

4. The rate of construction of the FLIM FLAM facility can best be shown by the following table:

Observation

No FLIM FLAM tracking buildings or interferometer present.

Tracking buildings present.

Cloud covered.

Precludes detailed interpretation.

Precludes detailed interpretation.

Precludes detailed interpretation. No interferometer present.

(CIA 540802-540803) The two tracking buildings are two stories high with windows on both floors. Possible open mesh antennas supported by pedestals are on each roof.

No apparent change in buildings. Interferometers in early stages of construction.

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Observation

No apparent change in buildings. Construction continues on interferometer.

No apparent change in buildings. Construction continues on interferometer.

Environment shelter on roof of westernmost building. Crane adjacent to easternmost building. Interferometer control building under construction.

Precludes detailed interpretation.

Precludes detailed interpretation.

No apparent change in buildings. Construction continues on interferometer.

No apparent change.

Environmental shelter remains on westernmost building. Probable antenna on easternmost building with environmental shelter on ground adjacent to building. Interferometer control building earth covered.

It can be seen from the above table that construction began on the main FLIM FLAM tracking buildings between December 1960 and December 1961. It cannot be determined whether construction was complete by December 1961 but if not, they were in a very late stage of construction. No details about the buildings could be obtained until April 1963, at which time possible antennas were on the roof of each building.

Between August 1963 and March 1964, an environmental shelter was placed on the roof of the westernmost building and a crane appeared next to the easternmost building. Between August 1964 and September 1964, an environmental shelter was brought in to be placed over the antenna on the easternmost building. The interferometer, on which construction began August 1962 and June 1963, is (as of September 1964) in late stages of construction.

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5. The HF communication antennas available for use by the FLIM FLAM facility are the same as those used by the main Simferopol Tracking Center. They are located north of the tracking buildings and consist of a single, day rhombic and a double, night rhombic, both oriented on an azimuth of approximately 15 degrees; and a pair of fishbone arrays arranged so as to cover orientation

MAPS AND CHARTS: ACIC U. S. Air Target Chart, Series 200, Sheet 250-  
20HL, 4th ed., Sep 62, Scale 1:200,000 (SECRET)

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4. This project is not considered t

Enclosures:

- 1 - One line drawing  
(NPIC H-9835)
- 2 - One perspective drawing  
(NPIC H-6937)
- 3 - One photograph (NPIC H-9836)

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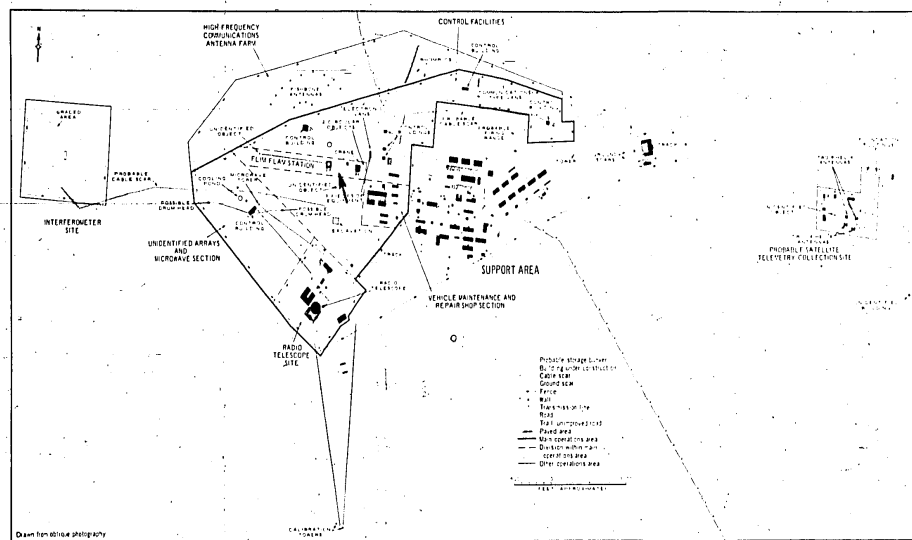
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DETAILS OF THE INTELLIGENCE CENTER

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Interpretation from photography  

NPIC-H-9835  
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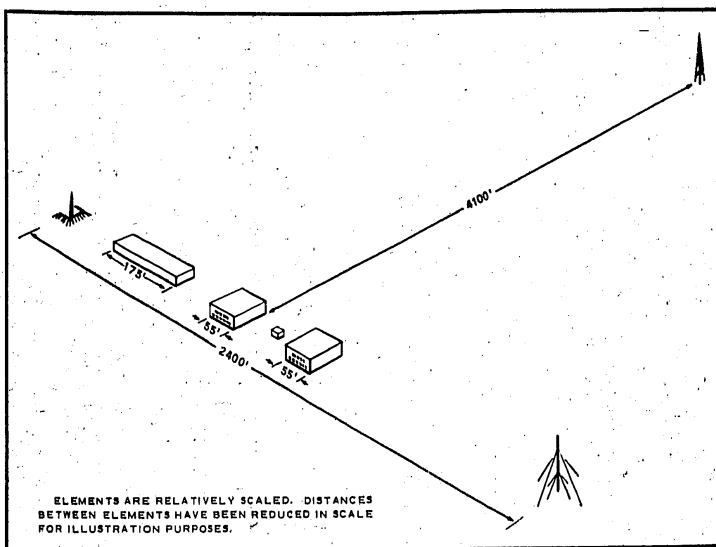


FIGURE 4. CONCEPT OF FLIM FLAM STATION AT SIMFEROPOL CENTER.

Interpretation from photography

NPIC H-6937  
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SWITZERLAND CENTER MARCH 1964

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NPIC H-9836  
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